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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or	agent's file reference	T		······································	
FA1159PCT		FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416		
International ap	pplication No.	International filing date (day/n	onth/year)	Priority date (day/month/year)	
PCT/US04/143	371	06 May 2004 (06.05.2004)	2004) 07 May 2002 (07 05 2002)		
		or national classification and IP	2004) 07 May 2003 (07.05.2003) n and IPC		
IPC(7): G011 3	3/42,3/46 and US Cl.: 356	5/319 402			
Applicant	,	7517,102			
E.I. DU PONT	DE NEMOURS AND C	OMPANY			
1. Thi Exa	s international prelimin mining Authority and	ary examination report has b is transmitted to the applicant	een prepared by according to A	this International Preliminary rticle 36.	
2. Thi	s REPORT consists of	a total of 6 sheets, including	this cover sheet	•	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
The	se annexes consist of a	total of sheets.			
3. This	s report contains indica	tions relating to the following	items:		
I Basis of the report					
п					
ш		ment of report with regard to novelty, inventive step and industrial applicability			
īV	Lack of unity of		veity, inventive	step and industrial applicability	
V	Reasoned statem applicability; citz	nent under Article 35(2) with regard to novelty, inventive step or industrial tations and explanations supporting such statement			
VI					
VII	Certain defects in	in the international application			
VIII	K-7	ations on the international application			
Date of submis	sion of the demand	Date	of completion	of this report	
03 December 2004 (03.12.2004)		30 A	ugust 2005 (30.08	3.2005)	
Name and mailing address of the IPEA/US		S Auth	Authorized officer		
Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents			Gregory J. Toatley, Jr. Majmise arter		
P.O. Box 1450 Alexandria, Virginia 223 I3-1450				Co Lat	
Facsimile No. (7			hone No. (571)	272-2059	
Form PCT/IPEA/409 (cover sheet)(July 1998)					

International appli	cation No.	
PCT/US04/14371		

T T 1 0.1					
I. Basis of th					
	to the elements of the international application:*				
1 1	ternational application as originally filed.				
	escription:				
	1-44 as originally filed				
pages	NONE, filed with the demand NONE, filed with the letter of				
	aims:				
	45-50 as originally filed				
pages	NONE, as amended (together with any statement) under Article 19				
pages	NONE, filed with the demand				
pages	NONE, filed with the letter of				
	awings:				
pages	NONE as originally filed				
pages	NONE, filed with the demand NONE, filed with the letter of				
	quence listing part of the description: NONE, as originally filed				
pages	NONE, filed with the demand				
pages	NONE, filed with the letter of				
With regard	d to the language, all the elements marked above were available or furnished to this Authority in the				
ianguage in	which the international application was filed, unless otherwise indicated under this item. ents were available or furnished to this Authority in the following language which is:				
	nguage of a translation furnished for the purposes of international search (under Rule23.1(b)).				
the lai	nguage of publication of the international application (under Rule 48.3(b)).				
	nguage of the translation furnished for the purposes of international preliminary examination(under Rules				
55.2 a	nd/or 55.3).				
3. With regard international	to any nucleotide and/or amino acid sequence disclosed in the international application, the preliminary examination was carried out on the basis of the sequence listing:				
	ned in the international application in printed form.				
	ogether with the international application in computer readable form.				
	furnished subsequently to this Authority in written form.				
	ned subsequently to this Authority in computer readable form.				
	atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the				
interna	ational application as filed has been furnished.				
The st	atement that the information recorded in computer readable form is identical to the written sequence				
usung					
	en furnished. nendments have resulted in the cancellation of:				
	the description, pages <u>NONE</u>				
닠	the claims, Nos. NONE				
	the drawings, sheets/ fig <u>NONE</u>				
5. This repeated beyond	port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 and referred to it.					
ma report us or	ignary free and are not annexed to this report since they do not contain amondments. Pulse 70 16 and 70 170				
Any replacent	ent sheet containing such amendments must be referred to under item 1 and annexed to this report.				

Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US04/14371

V. Reasoned statement under Rule 66.2(a) citations and explanations supporting s	(ii) with regard to novelty, inventive step or ach statement	industrial applicability;
1. STATEMENT		
Novelty (N)	Claims 8,9,15-19,22,24 and 25 Claims 1-7,10-14,20,21 and 23	YES
Inventive Step (IS)	Claims NONE Claims 1-25	YES
Industrial Applicability (IA)	Claims 1-25 Claims NONE	YES
2. CITATIONS AND EXPLANATIONS Please See Continuation Sheet		
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International application No.

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VIII.	Certain	observations of	on ti	e international	application
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The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 17 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 17 is indefinite for the following reason(s): improperly dependent upon claim 8 that points to a method rather than a portable computer usable storage medium such as claim 16.

Form PCT/IPEA/409 (Box VIII) (July 1998)

International application No. PCT/US04/14371

Supplemental Box	
(To be used when the space in any of the preceding boxes is not sufficient)	

V. 2. Citations and Explanations:

Claims 1-7 and 10-14 lack novelty under PCT Article 33(2) as being anticipated by Falcoff (US 4,403,866).

As for claims 1-7 and 10-14, Falcoff in a color matching method and system discloses the following: measuring reflectances of a target with a spectrophotometer to plot spectral curves and calculating target color values of said target; selecting at least one colorant combination from stored values of standards; determining concentrations of colorants and balancing with non-colorants such as solvents and binder solutions; selecting optimized combination from an equation such as a difference between L*, a*, and b* values; comparing composition when applied to target coating; displaying values on a screen suggested by a computer and color stylist; mixing is involved to produce desired optimized formulation; applying optimized formulation through spraying onto a substrate such as a primed steel panel; substrate is a truck or auto body and coating composition is automotive paint; at least one colorant is used in the formulation; a matched coating composition is produced (column 2, lines 40-67; column 3, lines 5-45; columns 4-5; column 8, lines 20-35); the device comprises a programmable computer thereby having computer code with spectrophotometer; mixer; dispenser (Fig. 1: 1, 19, 13 with FILL).

Claims 20, 21, and 23 lack novelty under PCT Article 33(2) as being anticipated by Cheetam (5,668,633).

As for claims 20, 21, 23, Cheetam in a method and system for formulating a color match discloses: measuring the spectrum, reflectances, of a target standard; calculating target color values of said target; selecting at least one colorant combination; determining concentrations of colorants; balancing combinations to allow for presence of noncolorant such as resins or grades of plastics; selecting optimal combination to be mixed and matched and formed with resin form; mixing of coating and resins to produced matched resin; processing said resin through molding (Figures 2-3; columns 3-6).

Claims 8, 9, 15, and 18 lack an inventive step under PCT Article 33(3) as being obvious over Falcoff (US 4,403,866) in view of Corrigan (US 6,522,977) and Kettler (US 5,929,998) and Steenhoek (US 4,917,495).

As for claims 8, 9, 15, and 18 Falcoff discloses everything as above (see claims 1 and 11). He is silent about using multiple angles with his spectrophotometer nor the transportability of the device. However, Corrigan, Kettler, and Steenhoek all teach that color measurements are made at multiple angles with aspecular angles and that their systems are portable (Corrigan: column 6, lines 24-60; Kettler: column 5, lines 10-35; Steenhoek: Figure 1 and column 5, lines 30-60). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the method and device provide multiple aspecular angles of measurement in measurement. In addition, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the system be portable in order to facilitate quick measurements on a variety of test surfaces such as horizontal and vertical surfaces on automobile bodies.

Form PCT/IPEA/409 (Continuation Sheet) (July 1998)

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Claims 16-17 lack an inventive step under PCT Article 33(3) as being obvious over Falcoff (US 4,403,866) in view of Corrigan (US 6,522,977).

As for claims 16-17, Falcoff teaches claim 1 (see above) and a programmed computer (column 5, lines 65-67). He is silent concerning portable computer storage medium such as CD-ROM. However, Corrigan in a color matching device teaches the use of several portable storage media such as CD-ROM, DVD ROM magnetic tape (col. 6, lines 55-60). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the system comprise portable computer usable storage medium such as CD-ROM in order to temporarily or permanently record data in order for it to be read later. Claim 17 has been interpreted as depending from claim 16.

Claim 19 lack an inventive step under PCT Article 33(3) as being obvious over Falcoff (US 4,403,866) in view of Milosevic (US 4,853,542).

As for claim 19, Falcoff discloses everything as above (see claim 11). He is silent concerning a spherical spectrophotometer. However, Milosevic teaches in a spectrophotometer having a spherical configuration to increase signal to noise (column 1, lines 65-67; column 2, lines 1-20). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the spectrophotometer be spherical in order to increase the signal to noise ratio of the system.

Claims 22, 24, 25 lack an inventive step under PCT Article 33(3) as being obvious over Cheetam (5,668,633).

As for claims 22, 24, 25 Cheetam discloses everything as above (see claim 20). He is silent concerning the particular type of molding process (column 5, lines 38-40), the particular substrate and particular matched substrate but he discloses that the substrates may be plastic, paper, or cloth (column 2, lines 55-60). Extrusion, thermoforming, injection molding, blow and rotational molding are well known processes of manipulating resins into forms. Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the resin processed through extrusion, thermoforming, or type of molding in order to form it into a particular shape such as a plaque or chip.

Claims 1-25 meet the criteria set out in PCT Article 33(4), and thus has industrial applicability because the subject matter claimed can be made or used in industry.

 NEW	CITATIONS	